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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	09/731,891
				Filing Date	12/6/00
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Thuan V. Do
Sheet	1	of	4	Attorney Docket Number	SPLX.P0002

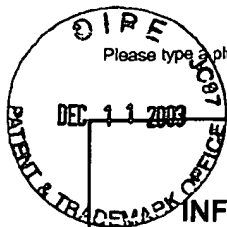
RELATED U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number				
TD	1.	2002/0100007		12-06-2000	Steven Teig et al.	Application regarding related placement technology.
TD	2.	2002/0073390 S/N 09/737,210		12-13-2000	Steven Teig et al.	Continuation of present application
TD	3.	Preliminary Amendment S/N 09/737,210		12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210.
TD	4.	Preliminary Amendment S/N 09/737,220		12-13-2000	Steven Teig et al.	Continuation of present application
TD	5.	Preliminary Amendment S/N 09/737,245		12-13-2000	Steven Teig et al.	Continuation of present application
TD	6.	Preliminary Amendment S/N 09/739,460		12-15-2000	Steven Teig et al.	Continuation of 2002/0100007
TD	7.	2002/0124231 S/N 09/739,580		12-15-2000	Steven Teig et al.	Continuation of 2002/0100007
TD	8.	Preliminary Amendment S/N 09/739,580		12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
TD	9.	Preliminary Amendment S/N 09/739,589		12-15-2000	Steven Teig et al.	Continuation of 2002/0100007
TD	10.	Preliminary Amendment S/N 09/742,171		12-19-2000	Steven Teig et al.	Continuation of 2002/0100007
TD	11.	6,651,233		11-18-2003	Teig et al.	Continuation of 2002/0100007
TD	12.	2002/0069397		01-13-2002	Steven Teig et al.	CIP of 2002/0100007

Examiner Signature	<i>Thuan V. Do</i>	Date Considered	2/18/04
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				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	Thuan V. Do
<b>Sheet</b>	2	of	4	<b>Attorney Docket Number</b>	SPLX.P0002

RELATED U.S. PATENT DOCUMENTS					
TD	13.	2002/0170027	02-20-2002	Steven Teig et al.	CIP of 2002/0100007
TD	14.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of 2002/0100007
TD	15.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	CIP of present application
TD	16.	Preliminary Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.
TD	17.	2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology
TD	18.	2002/0147958	10-19-2001	Steven Teig et al.	Application regarding related routing technology
TD	19.	2003/0079193	12-07-2001	Steven Teig et al.	Application regarding related routing technology
TD	20.	2003/0063614	01-04-2002	Steven Teig et al.	Application regarding related routing technology
TD	21.	2003/0064559	01-04-2002	Steven Teig et al.	Application regarding related routing technology
TD	22.	2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing technology
TD	23.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology
TD	24.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
TD	25.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology
TD	26.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
TD	27.	2003/0043827	01-05-2002	Steven Teig et al.	Application regarding related routing

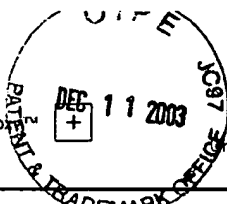
<b>Examiner Signature</b>	<i>Umanab</i>	<b>Date Considered</b>	2/18/04
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				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Thuan V. Do
Sheet	3	of	4	Attorney Docket Number	SPLX.P0002

RELATED U.S. PATENT DOCUMENTS						
TD		S/N 10/040,953				technology
TD	28.	Preliminary Amendment S/N 10/040,953	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.	
TD	29.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
TD	30.	Preliminary Amendment S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.	
TD	31.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
TD	32.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.	
TD	33.	2002/0174412 S/N 10/041,942	01-07-2002	Steven Teig et al.	Application regarding related routing technology	
TD	34.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.	
TD	35.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Application regarding related routing technology	
TD	36.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.	
TD	37.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
TD	38.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N	

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				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Thuan V. Do
Sheet	4	of	4	Attorney Docket Number	SPLX.P0002

RELATED U.S. PATENT DOCUMENTS						
TD						10/046,864.
TD	39.	2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
TD	40.	2003/0115566	01-13-2002	Steven Teig	Application regarding related routing technology	
TD	41.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Application regarding related routing technology	
TD	42.	Preliminary Amendment S/N 10/047,982	01-14-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982.	
TD	43.	2003/0066044	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
TD	44.	6,618,849	09-09-2003	Teig et al.	Application regarding related routing technology	
TD	45.	2003/0088845 S/N 10/047,978	05-08-2002	Steven Teig et al.	Application regarding related routing technology	
TD	46.	Preliminary Amendment S/N 10/047,978	05-08-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.	

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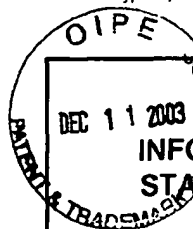
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Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
TD	1.	2001/0009031	A1	07-19-2001	Nitta et al.	
TD	2.	2002/0182844	A1	12-05-2002	Igarashi et al.	
TD	3.	2003/0005399	A1	01-02-2003	Igarashi et al.	
TD	4.	2003/0225205	A1	02-06-2003	Shively	
TD	5.	4,593,363		06-03-1986	Burstein et al.	
TD	6.	4,855,929		08-08-1989	Nakajima	
TD	7.	5,267,176		11-30-1993	Antreich et al.	
TD	8.	5,375,069		12-20-1994	Satoh et al.	
TD	9.	5,587,923		12-24-1996	Wang	
TD	10.	5,618,744		04-08-1997	Suzuki et al.	
TD	11.	5,633,479		05-27-1997	Hirano	
TD	12.	5,637,920		06-10-1997	Loo	
TD	13.	5,640,327		06-17-1997	Ting	
TD	14.	5,663,891		09-02-1997	Banji et al.	
TD	15.	5,757,089		05-26-1998	Ishizuka	
TD	16.	5,784,289		07-28-1998	Wang	
TD	17.	5,798,936		08-25-1998	Cheng	
TD	18.	5,838,583		11-17-1998	Varadarajan et al.	
TD	19.	5,889,677		03-30-1999	Yasuda et al.	
TD	20.	5,980,093		11-09-1999	Jones et al.	
TD	21.	6,070,108		05-30-2000	Andreev et al.	

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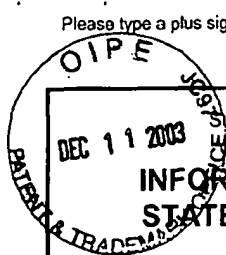
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U.S. PATENT DOCUMENTS						
TD	22.	6,128,767		10-03-2000	Chapman	
TD	23.	6,209,123	B1	03-27-2001	Maziasz et al.	
TD	24.	6,253,363	B1	06-26-2001	Gasarov et al.	
TD	25.	6,295,634	B1	09-25-2001	Matsumoto	
TD	26.	6,324,674	B2	11-27-2001	Andreev et al.	
TD	27.	6,324,675	B1	11-27-2001	Dutta et al.	
TD	28.	6,327,693	B1	12-04-2001	Cheng et al.	
TD	29.	6,327,694	B1	12-04-2001	Kanazawa	
TD	30.	6,330,707	B1	12-11-2001	Shinomiya et al.	
TD	31.	6,378,121	B2	04-23-2002	Hiraga	
TD	32.	6,407,434	B1	06-18-2002	Rostoker et al.	
TD	33.	6,412,102	B1	06-25-2002	Andreev et al.	
TD	34.	6,415,422	B1	07-02-2002	Mehrotra et al.	
TD	35.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.	
TD	36.	6,448,591	B1	09-10-2002	Juengling	
TD	37.	6,473,891	B1	10-29-2002	Shively	
TD	38.	6,480,991	B1	11-12-2002	Cho et al.	
TD	39.	6,490,713	B2	12-03-2002	Matsumoto	
TD	40.	6,519,751	B2	02-11-2003	Sriram et al.	
TD	41.	6,543,043	B1	04-01-2003	Wang et al.	
TD	42.	6,546,540	B1	04-08-2003	Igarashi et al.	
TD	43.	6,557,145	B2	04-29-2003	Boyle et al.	
TD	44.	6,567,967	B2	05-20-2003	Greidinger et al.	

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Substitution for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	09/731,891
		Filing Date	12/6/00
		First Named Inventor	Steven Teig
		Group Art Unit	2825
		Examiner Name	Thuan V. Do
Sheet 3 of 7	Attorney Docket Number	SPLX.P0002	

FOREIGN PATENT DOCUMENTS								
Examiner <sup>1</sup> Initials	Cite No. <sup>2</sup>	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known) <sup>5</sup>				
	45.	JP	411296560	A	10-29-1999	Matsumoto et al.	with English translation of Abstract;	
	46.	JP	2000-82743	A	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	47.	JP	H03-173471	A	07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	48.	JP	H05-243379	A	09-21-1993	Masako Kubota	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	49.	JP	H05-102305	A	04-23-1993	Akihiro Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	50.	JP	H07-86407	A	03-31-1995	Shinpei Miura	with Japanese Patent Office's English translation of Abstract;	✓

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STATEMENT BY APPLICANT**

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Sheet	4	of	7	Application Number	09/731,891
				Filing Date	12/6/00
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Thuan V. Do
				Attorney Docket Number	SPLX.P0002

**FOREIGN PATENT DOCUMENTS**

							and with English translation of the application.	
	51.	JP	H09-162279	A	06-20-1997	Masaaki Yoshida	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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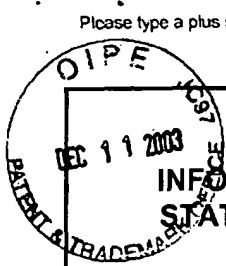
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Sheet	5	of	7	Attorney Docket Number	SPLX.P0002

NON PATENT LITERATURE DOCUMENTS					
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>
	52.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.			
	53.	Brady, L. et al., Channel Routing on a 60° Grid, extended abstract, pp. 956-931.			
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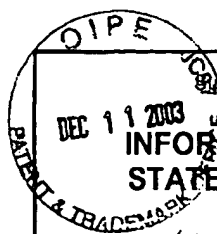
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				Group Art Unit	2825
				Examiner Name	Thuan V. Do
Sheet	6	of	7	Attorney Docket Number	SPLX.P0002

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